Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently amended) A fluid feed system commanded to a fluid flow rate set point by a set point signal, comprising:

a metering pump receiving a control signal including a series of pulses, each pulse directing a cycle ~~rate~~ for the metering pump, the metering pump delivering an approximately constant output volume with each cycle;

a fluid flow meter connected to measure a fluid flow rate produced by the metering pump and which ~~provided~~ produces a fluid flow rate signal; and

a metering pump controller responsive to the set point signal and the fluid flow rate signal to adjust the series of pulses of the control signal to ~~direct a cycle rate~~ have a rate which produces a fluid flow rate equal to the fluid flow rate set point.

2. (Original) The fluid feed system of claim 1, wherein the metering pump is a positive displacement pump.

3. (Cancelled)

4. (Original) The fluid feed system of claim 1, wherein the fluid flow meter is a positive displacement meter.

5. (Original) The fluid feed system of claim 4, wherein the positive displacement meter is an oval gear meter.

6. (Currently amended) A method of controlling a fluid flow rate, comprising:

displacing an approximately defined quantity of fluid ~~at a rate determined by~~ for each pulse of a control signal including a series of pulses;

measuring an actual fluid flow rate; and

adjusting a rate of the series of pulses of the control signal to produce a rate of displacing the approximately defined quantity of fluid such that the actual fluid flow rate matches a desired fluid flow rate.

7. (Cancelled)

8. (Cancelled)

9. (Currently amended) A chemical processing facility, comprising:

a fluid feedstock;

a metering pump receiving a control signal including a series of pulses, each pulse directing a cycle ~~rate~~ for the metering pump, the metering pump delivering an approximately constant output volume with each cycle;

a fluid flow meter connected to measure a fluid flow rate produced by the metering pump and which provides a fluid flow rate signal;

a source of a fluid flow rate set point signal;

a metering pump controller responsive to the set point signal and the fluid flow rate signal to adjust the series of pulses of the control signal to ~~direct a cycle rate~~ have a rate which produces a fluid flow rate equal to ~~the~~ a fluid flow rate set point defined by the fluid flow rate set point signal; and

a process consuming fluid at a rate equal to the fluid flow rate set point.

10. (Original) The chemical processing facility of claim 9, wherein the metering pump is a positive displacement pump.

11. (Cancelled)

12. (Original) The chemical processing facility of claim 9, wherein the fluid flow meter is a positive displacement meter.

13. (Original) The chemical processing facility of claim 12, wherein the positive displacement meter is an oval gear meter.

14. (Currently amended) A fluid dispenser, comprising:

a fluid feedstock;

a metering pump receiving a control signal including a series of pulses, each pulse directing a cycle ~~rate~~ for the metering pump, the metering pump delivering an approximately constant output volume with each cycle;

a fluid flow meter connected to measure a fluid flow rate produced by the metering pump and which provides a fluid flow rate signal;

a source of a fluid flow rate set point signal;

a metering pump controller responsive to the set point signal and the fluid flow rate signal to adjust the series of pulses of the control signal to ~~direct a cycle rate~~ have a rate which produces a fluid flow rate equal to ~~the~~ a fluid flow rate set point defined by the fluid flow rate set point signal; and

a fluid outlet through which the fluid flow produced by the metering pump is communicated.

15. (Original) The fluid dispenser of claim 14, wherein the metering pump is a positive displacement pump.

16. (Cancelled)

17. (Original) The fluid dispenser of claim 14, wherein the fluid flow meter is a positive displacement meter.

18. (Original) The fluid dispenser of claim 17, wherein the positive displacement meter is an oval gear meter.